

**Mission Support: Administrative Services (William Broglie)**

No IT referenced.

**Aircraft Services (Elizabeth White)**

No IT referenced.

**Acquisitions and Grants (Bob Stockman)**

Prioritized Gap:

1. Adequacy of IT systems support to ensure basic system functionality as well as continuous applications refinement for the most efficient conduct of processing operations (CSTARS, Grants Online, etc

Best Alternative

MS-AQP System Support

“...benefit of new functionality (from DOC and NOAA systems) and process driven applications will only occur if high quality system support is readily and continuously available.”

Alternative Justification

“High level acquisition and financial assistance IT processing support is essential to achieve efficient and effective execution of half of the NOAA budget.”

**Facilities (William Broglie)**

No IT referenced.

**Financial Services (Sherry Morrisette)**

Capability: PPBES Management Information System

“Capability to provide and end to end resource management information system for the PPBES process.....”

Program constraint

Lack of E2E Resource management system (integrated budget, financial, planning and programming data)

Monument Budget System has not been developed to its full capacity

Data quality and availability

Department level system requirements

There has been a lack of investment in information management and technology over a period of time.

There is no document imaging system to link vendors invoices to transactions in CAMS so documents are filed manually and the files take up approximately 2,000 square feet of space.

Personnel lack training in journeyman and expert levels of technical requirements, so they perform manual steps that could be performed with CAMS, Excell, Access, and Word.

Prioritized capabilities

D: PPBES Management Information System

**Fleet Replacement (Elizabeth White)**

CONSTRAINT - Workforce Collaboration Tools and NOAA Management Information System: The lack of an enterprise-wide action item tracker results in numerous individual to-do lists with no historical tracking or means to monitor tasks. The mixed bag of Netscape / Thunderbird e-mail and Oracle Calendar pales in comparison to the collaboration utility of Microsoft Outlook and wastes valuable IT support hours attempting to link PDAs to these sources of information and support other features of the PDAs. Field office connection to headquarters databases / servers prevents the efficient sharing of data / resources. Lack of document management software prevents the efficient storage and retrieval of files. ALTERNATIVES: (1) obtain an enterprise-wide action item tracking system, (2) obtain, train on and deploy Microsoft Outlook, (3) ensure all NOAA employees are able to access their field and headquarters server folders and (4) obtain, train and deploy enterprise-wide document management software.

IT Council Input:

MS EA Agreement

Video conferencing

Secure Instant Messaging; real time communication (a secure version of AOL Instant Messenger)

Enterprise-wide document management software; lack of document management software prevents the efficient storage and retrieval of files

Enterprise-wide action item tracking system: lack of this tool results in numerous individual to-do lists with no historical tracking or means to monitor tasks

**Geostationary Satellite Acquisitions (Gary Davis)**

Capability Information - MS-STG Geostationary Satellite R-Series Pre-Planned Product Improvements

“NOAA must develop additional system capabilities, including on-orbit instrumentation and associated ground segment infrastructure, to meet unmet user requirements and to make optimal use of the GOES End-to-End system. This capability also adds global comm.” (no ending to sentence in plan)

No Council input.

**Homeland Security - Phil Kenul**

Constraint 1: Need for robust system connectivity supporting NOAA's PMEF operations during normal operations and during COOP Activities. Alternative 1: Implement MS-SEC NOAANet to establish enterprise network with diverse connectivity.

No Council input.

## **Line Office Headquarters Support (Mitchell Luxenberg) (LO CIO offices)**

See handout pages 2,3,5,6,7,10

### **Marine Ops & Maintenance (Elizabeth White)**

Constraint:

Vessel Communications

- the ability to transfer large quantities of data 24/7 on all vessels is not available at this time which limits real time lab-to-ship science analysis and project execution and management efficiencies
- science mission systems such as Multibeam, High Speed Digital Side Scan, and Fisheries Scientific Computer Systems generate large quantities of data
- new systems such as AUVs and ROVs will drive the volume of data beyond the capability to provide sufficient storage aboard the vessel and it will become critical to transmit the data off the ship for processing
- currently 24/7 communications can be provided but at significant cost

What are we doing about it:

- the next generation NOAA satellite has a requirement to address this capability at lower cost but this capability, if acquired, will not be available until 2012
- 24/7 communication capability for some NOAA vessels is being shared through collaboration with UNOLS vessel operators who are providing a service to their vessels at a much reduced cost
- RONLAD H. BROWN is using the "scientist ashore" approach for ocean exploration cruises, i.e., real time data transmission capability allows the scientists ashore to utilize the data from his desk and respond to what is happening, this is a force multiplier of sorts

Constraint:

Technology Refresh – Navigation-critical and Mission Instrumentation Systems

- aging and obsolete mission equipment needs to be upgraded or replaced on a routine basis
- technology in newer instrumentation requires refresh much more frequently than older systems
- new technology exists which would provide NOAA with more efficient and increased quality controlled data from which to make decisions

What are we doing about it:

- in some cases, cost share instrumentation upgrades with vessel users
- requesting additional resources to support life cycle costs of vessel instrumentation and technology refresh
- revised the Fleet Council Terms of Reference to support a vessel instrumentation subcommittee under the Council that would identify instrumentation requirements across NOAA programs and identify those vessel systems of highest priority for data collection at sea to be resourced

Constraint:

Lack of Management Information System tools

- the process of requesting operating days, allocation of days, and tracking the days from appropriation of resources to accomplishment of allocated operating days is currently inefficient
- monthly and quarterly reporting requirements consume significant staff hours
- users of NOAA platforms cannot easily benefit from or gain potential efficiencies in ship scheduling by having an awareness of what other operating days are being requested
- an on-line allocation database would contribute to fleet management and scheduling efficiencies across the fleet's customer base

What are we doing about it:

- developed on-line system design criteria
- working with NOS special projects office software designers and database experts, generating a white paper for NOAA Program Managers' use in the FY08 planning cycle to endorse such a capability and resources to initiate it
- incorporating design capacity in the tool to add new fleet management information modules over time

CIO Council Input:

MS EA Agreement

Video conferencing

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Enterprise-wide document management software; lack of document management software prevents the efficient storage and retrieval of files

Enterprise-wide action item tracking system: lack of this tool results in numerous individual to-do lists with no historical tracking or means to monitor tasks

**NOAA Headquarters (George White)**

No IT.

**Polar Satellite Acquisitions (John Cunningham)**

"...incorporate new technologies from NASA."

Capability Name – Jason 3 Altimeter

...upgrade and operations (command & control, data processing & distribution, and archive)

IT Council Input:

Yes.

**Satellite Services (Richard Barazotto)**

All capabilities within the Satellite Services Program are interdependent and provide for an integrated system supporting the end-to-end ingesting, processing and distribution of environmental satellite data. This program is not executable without all the capabilities being fully operational due to the interdependencies.

Best Alternative: Enterprise Information Security

Satellite Services is responsible for the management and operation of five of the seven NOAA National Mission Critical Systems (GOES, POES, DMSP, DCS, and CEMSCS-ESPC) and one Mission Critical System (OSDPD LAN/WAN). In order to meet the growing demands of IT security requirements and adequately mitigate risk through the implementation of security controls, additional funds are required. These Security controls are needed to protect the information systems that support the operations and assets of the organization to accomplish its assigned mission, fulfill its legal responsibilities, maintain its day-to-day functions, and protect individuals. The Satellite Services National Mission Critical Systems must be in full compliance with all DOC/NOAA/LO IT Security Policies and Office of Management and Budget (OMB) Circular A-130, Appendix III, Security of Federal Automated Information Resources. NOAA's future missions requires the Satellite Services Program to provide better and more secure information in support of the nine societal benefits established by the committee Global Earth Observation System of Systems (GEOSS).

Funding this alternative represents a 5% increase to the Satellite Services Program.

CIO Council Input.

Yes.

More offering of web presentations/conferencing as an alternative to VTC.  
Standardized formats should be available to all users.

**Workforce Management (Barbara Boyd)**

Constraint:

MS-WMP (2) Lack of adequate and integrated systems. Current systems are stand-alone and either do not provide the full complement of necessary services or do not interact to supplement deficiencies in other systems.

Recommendation: Invest in the Enterprise Human Resources Initiative (EHRI), one of five OPM-led e-gov initiatives. (MS-WMP Alternative Implement EHRI) EHRI will support human resources management for employees at all levels from front-line to senior management. When fully implemented, EHRI will replace the current Official Personnel Folder (OPF) with an electronic employee record, resulting in a comprehensive electronic personnel data repository covering the entire life cycle of Federal employment. In addition, EHRI will provide NOAA managers and HR specialists with powerful

workforce analytic and planning capabilities. EHRI users will be able to query workforce data and conduct workforce planning under a variety of scenarios. Trends can be determined for retirements, promotions, reassignments, and other significant personnel actions. Together, these analytical tools will enable a level of strategic human capital planning that has, up to now, been difficult if not impossible to conduct.

It is estimated that EHRI will result in \$525,000 savings per year for NOAA. (\$42 per employee).

Not investing in integrated systems results in 1) inability to conduct strategic human capital planning, putting us in jeopardy of not meeting legal mandates; 2) increased workload of MS-WMP staff to input personnel data, maintain OPF's, and provide analytical data at a cost of over 10 FTE; 3) lower targets for performance measures – example, 120 days for hiring cycle time versus current 99 day target.

### Implement EHRI

OPM's Enterprise Human Resources Integration (EHRI) will support human resources management for employees at all levels from front-line to senior management. When fully implemented, EHRI will replace the current Official Personnel Folder (OPF) with an electronic employee record, resulting in a comprehensive electronic personnel data repository covering the entire life cycle of Federal employment. In addition, EHRI will provide NOAA managers and HR specialists with powerful workforce analytic and planning capabilities. Users can determine statistical counts, averages, correlation, etc., and conduct workforce planning under a variety of scenarios. Trends can be determined for retirements, promotions, reassignments, and other significant personnel actions. Together, these analytical tools will enable a level of strategic human capital planning that has, up to now, been difficult if not impossible to conduct.

It is estimated that EHRI will result in \$525,000 savings per year for NOAA. (\$42 per employee). The initial cost of \$1.2 M could be direct billed on a per/capita basis as could the \$8/folder/year maintenance cost for out years.